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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/717,119	11/19/2003	Michiel van Nieuwstadt	81093050	7315	
22844	7590 05/17/2005		EXAMINER		
FORD GLOBAL TECHNOLOGIES, LLC. SUITE 600 - PARKLANE TOWERS EAST			MCCALL, ERIC SCOTT		
ONE PARKL		EASI	ART UNIT	PAPER NUMBER	
DEARBORN	DEARBORN, MI 48126				
			DATE MAILED: 05/17/2009	DATE MAILED: 05/17/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/717,119	VAN NIEUWSTADT ET AL.			
Office Action Summary	Examiner	Art Unit			
	Eric S. McCall	2855			
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a rep eply within the statutory minimum of thirty (od will apply and will expire SIX (6) MONTH tute, cause the application to become ABAI	ly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>08</u>	March 2005.				
2a) ☐ This action is FINAL . 2b) ☑ TI	his action is non-final.				
· · · · · · · · · · · · · · · · · · ·	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ⊠ Claim(s) 1-6 and 17 is/are pending in the ap 4a) Of the above claim(s) is/are withd 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,4-6 and 17 is/are rejected. 7) ⊠ Claim(s) 2 and 3 is/are objected to. 8) □ Claim(s) are subject to restriction and	rawn from consideration.				
Application Papers	•				
9) ☐ The specification is objected to by the Exami 10) ☑ The drawing(s) filed on 19 November 2003 is Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. 11) ☐ The oath or declaration is objected to by the	s/are: a)⊠ accepted or b)☐ on the drawing(s) be held in abeyance ection is required if the drawing(s	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in Apriority documents have been re eau (PCT Rule 17.2(a)).	plication No eceived in this National Stage			
Attachment(s)	_				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/C Paper No(s)/Mail Date <u>11/19/03</u>. 		ormal Patent Application (PTO-152)			

DIESEL AFTERTREATMENT SYSTEMS

FIRST OFFICE ACTION ON THE MERITS

ELECTION

The Applicant's response to the restriction requirement has been considered. Although the Applicant's response did not formally elect an invention to be examined, the response has been entered because the Applicant has cancelled all claims directed to inventions other than that of invention I as deemed by the Examiner in the restriction requirement. Thus, the restriction requirement is deemed moot.

TITLE

The title of the invention is objected to because it is not descriptive of the claimed invention. A new title is required that is clearly indicative of the invention to which the claims are directed.

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CLAIMS

35 U.S.C. § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4-6, and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Mazur et al. (6,408,616).

With respect to claims 1 and 6, Mazur et al. suggests a diagnostic method, comprising: estimating a temperature of a NOx-reducing catalyst based on a thermodynamic model of said NOx-reducing catalyst (18; Fig. 2);

estimating a hydrocarbon conversion efficiency of said NOx-reducing catalyst based on said temperature estimate (20; Fig. 2); and

estimating a parameter indicative of an age of said NOx-reducing catalyst based on said estimated hydrocarbon conversion efficiency of said catalyst (22; Fig. 2 and col. 1, lines 17-42).

With respect to claim 4, the NOx-reducing catalyst of Mazur et al. is deemed as an ALNC as claimed.

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With respect to claim 5, the NOx-reducing catalyst of Mazur et al. is deemed as an

oxidation catalyst as claimed.

With respect to claim 17, said claim parallels that of claim 1 and thus the same arguments

as stated above with respect to claim 1 also apply to claim 17. Furthermore, the teaching of

Mazur et al. sets forth an OBD-II system for carrying out such a diagnosis and thus the teaching

suggests a computer storage medium having a computer program encoded therein as claimed.

Allowable Subject Matter

Claims 2 and 3 are objected to as being dependent upon a rejected base claim, but would

be allowable if rewritten in independent form including all of the limitations of the base claim

and any intervening claims because the prior art fails to teach or suggest the equations as set

forth in claim 2.

<u>RELEVANT ART</u>

The Applicant's attention is directed to the enclosed "PTO-892" form for the documents

cited at the time of this office action.

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CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the

Examiner should be directed to Eric S. McCall whose telephone number is (571) 272-2183.

The fax phone number for the organization where this application or proceeding is

assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eric S. McCall Primary Examiner Art Unit 2855

May 13, 2005